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<b>TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371</b>		ATTORNEY'S DOCKET NUMBER <b>P10003 US</b>
INTERNATIONAL APPLICATION NO. <b>PCT/KR2004/001467</b>	INTERNATIONAL FILING DATE <b>JUNE 18, 2004</b>	U.S. APPLICATION NO. (If known, see 37 CFR 1.5) <b>(Not Yet Assigned)</b>
		PRIORITY DATE CLAIMED <b>JUNE 19, 2003</b>
TITLE OF INVENTION <b>PROCESS FOR PREPARING POROUS HYBRID COMPRISING ZEOLITE AND CHITOSAN) AND POROUS HYBRID</b>		
APPLICANT(S) FOR DO/EO/US <b>Kyung Byung YOON et al.</b> PREPARED THEREBY		
Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:		
<p>1. <input checked="" type="checkbox"/> This is a <b>FIRST</b> submission of items concerning a submission under 35 U.S.C. 371.</p> <p>2. <input type="checkbox"/> This is a <b>SECOND</b> or <b>SUBSEQUENT</b> submission of items concerning a submission under 35 U.S.C. 371.</p> <p>3. <input checked="" type="checkbox"/> This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.</p> <p>4. <input checked="" type="checkbox"/> The US has been elected (Article 31).</p> <p>5. <input checked="" type="checkbox"/> A copy of the International Application as filed (35 U.S.C. 371(c)(2))           <ul style="list-style-type: none"> <li>a. <input type="checkbox"/> is attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input checked="" type="checkbox"/> has been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> is not required, as the application was filed in the United States Receiving Office (RO/US).</li> </ul> </p> <p>6. <input checked="" type="checkbox"/> An English language translation of the International Application as filed (35 U.S.C. 371(c)(2))           <ul style="list-style-type: none"> <li>a. <input checked="" type="checkbox"/> is attached hereto.</li> <li>b. <input type="checkbox"/> has been previously submitted under 35 U.S.C. 154(d)(4).</li> </ul> </p> <p>7. <input checked="" type="checkbox"/> Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))           <ul style="list-style-type: none"> <li>a. <input type="checkbox"/> are attached hereto (required only if not communicated by the International Bureau).</li> <li>b. <input type="checkbox"/> have been communicated by the International Bureau.</li> <li>c. <input type="checkbox"/> have not been made; however, the time limit for making such amendments has NOT expired.</li> <li>d. <input checked="" type="checkbox"/> have not been made and will not be made.</li> </ul> </p> <p>8. <input type="checkbox"/> An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).</p> <p>9. <input checked="" type="checkbox"/> An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).</p> <p>10. <input checked="" type="checkbox"/> An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).</p>		
<p><b>Items 11 to 20 below concern document(s) or information included:</b></p> <p>11. <input checked="" type="checkbox"/> An Information Disclosure Statement under 37 CFR 1.97 and 1.98.</p> <p>12. <input checked="" type="checkbox"/> An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.</p> <p>13. <input checked="" type="checkbox"/> A preliminary amendment.</p> <p>14. <input checked="" type="checkbox"/> An Application Data Sheet under 37 CFR 1.76.</p> <p>15. <input type="checkbox"/> A substitute specification.</p> <p>16. <input checked="" type="checkbox"/> A power of attorney and/or change of address letter.</p> <p>17. <input type="checkbox"/> A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.</p> <p>18. <input type="checkbox"/> A second copy of the published International Application under 35 U.S.C. 154(d)(4).</p> <p>19. <input type="checkbox"/> A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).</p>		

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<p>The following fees have been submitted</p> <table border="1"> <tr> <td>21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a)).....</td> <td>\$300</td> <td>CALCULATIONS</td> <td>PTO USE ONLY</td> </tr> <tr> <td>22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c))</td> <td>\$200</td> <td></td> <td></td> </tr> <tr> <td colspan="2">If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). .... \$0</td> <td></td> <td></td> </tr> <tr> <td colspan="2">All other situations.....\$200</td> <td></td> <td></td> </tr> <tr> <td colspan="2">23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b))</td> <td>\$ 400</td> <td></td> </tr> <tr> <td colspan="2">If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). .... \$0</td> <td></td> <td></td> </tr> <tr> <td colspan="2">Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority.....\$100</td> <td></td> <td></td> </tr> <tr> <td colspan="2">International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB.....\$400</td> <td></td> <td></td> </tr> <tr> <td colspan="2">All other situations.....\$500</td> <td></td> <td></td> </tr> <tr> <td colspan="2"><b>TOTAL OF 21, 22 and 23 =</b></td> <td>\$ 900</td> <td></td> </tr> <tr> <td colspan="2"><input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof.</td> <td></td> <td></td> </tr> <tr> <td>Total Sheets</td> <td>Extra Sheets</td> <td>Number of each additional 50 or fraction thereof (round up to a whole number)</td> <td>RATE</td> </tr> <tr> <td>61 - 100 =</td> <td>0 /50 =</td> <td>(C)</td> <td>x \$250</td> </tr> <tr> <td colspan="2">Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)).</td> <td>\$</td> <td></td> </tr> <tr> <td>CLAIMS</td> <td>NUMBER FILED</td> <td>NUMBER EXTRA</td> <td>RATE</td> <td>\$</td> </tr> <tr> <td>Total claims</td> <td>35 - 20 =</td> <td>15</td> <td>x \$ 50</td> <td>\$ 750</td> </tr> <tr> <td>Independent claims</td> <td>4 - 3 =</td> <td>1</td> <td>x \$200</td> <td>\$ 200</td> </tr> <tr> <td colspan="2">MULTIPLE DEPENDENT CLAIM(S) (if applicable)</td> <td></td> <td>+ \$360</td> <td>\$ 360</td> </tr> <tr> <td colspan="2"></td> <td colspan="2"><b>TOTAL OF ABOVE CALCULATIONS =</b></td> <td>\$ 2210</td> </tr> <tr> <td colspan="2"><input checked="" type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½.</td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="2"></td> <td colspan="2"><b>SUBTOTAL =</b></td> <td>\$ 1105</td> </tr> <tr> <td colspan="2">Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)).</td> <td></td> <td></td> <td>\$</td> </tr> <tr> <td colspan="2"></td> <td colspan="2"><b>TOTAL NATIONAL FEE =</b></td> <td>\$ 1105</td> </tr> <tr> <td colspan="2">Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property</td> <td></td> <td></td> <td>\$ 40</td> </tr> <tr> <td colspan="2"></td> <td colspan="2"><b>TOTAL FEES ENCLOSED =</b></td> <td>\$ 1145.00</td> </tr> <tr> <td colspan="2"></td> <td>Amount to be refunded:</td> <td colspan="2">\$</td> </tr> <tr> <td colspan="2"></td> <td>Amount to be charged</td> <td colspan="2">\$</td> </tr> </table>					21. <input checked="" type="checkbox"/> Basic national fee (37 CFR 1.492(a)).....	\$300	CALCULATIONS	PTO USE ONLY	22. <input checked="" type="checkbox"/> Examination fee (37 CFR 1.492(c))	\$200			If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). .... \$0				All other situations.....\$200				23. <input checked="" type="checkbox"/> Search fee (37 CFR 1.492(b))		\$ 400		If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4). .... \$0				Search fee (37 CFR 1.445(a)(2)) has been paid on the international application to the USPTO as an International Searching Authority.....\$100				International Search Report prepared by an ISA other than the US and provided to the Office or previously communicated to the US by the IB.....\$400				All other situations.....\$500				<b>TOTAL OF 21, 22 and 23 =</b>		\$ 900		<input type="checkbox"/> Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). 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IAP9 Rec'd PCT/PTO 16 DEC 2009

PTO-1390 (Rev. 07-2005)

Approved for use through 3/31/2007. OMB 0651-0021

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

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- a.  A check in the amount of \$ 1145.00 to cover the above fees is enclosed.
- b.  Please charge my Deposit Account No. \_\_\_\_\_ in the amount of \$ \_\_\_\_\_ to cover the above fees. A duplicate copy of this sheet is enclosed.
- c.  The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. \_\_\_\_\_. A duplicate copy of this sheet is enclosed.
- d.  Fees are to be charged to a credit card. **WARNING:** Information on this form may become public. **Credit card information should not be included on this form.** Provide credit card information and authorization on PTO-2038.

**NOTE:** Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

SEND ALL CORRESPONDENCE TO:

The Rafferty Patent Law Firm  
5307 RYMNEY LN  
BURKE, VA 22015

Tel.: (703)425-3249  
Fax: (626)549-2008  
ryan@raffertyfirm.com

Ryan Rafferty  
SIGNATURE  
RYAN RAFFERTY  
NAME  
55,556  
REGISTRATION NUMBER

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Kyung Byung YOON *et al.*

Appl. No: : Not Yet Assigned  
(US National Phase of PCT/KR2004/001467)

Filed : Concurrently Herewith

For : PROCESS FOR PREPARING POROUS HYBRID COMPRISING  
ZEOLITE AND CHITOSAN AND POROUS HYBRID PREPARED  
THEREBY

**STATEMENT OF STATUS AS SMALL ENTITY**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

In accordance with 37 CFR § 1.27, Applicant in the above-identified application hereby requests status as a small entity for purposes of paying fees.

Respectfully submitted,  
Kyung Byung YOON *et al.*

  
\_\_\_\_\_  
Ryan Rafferty  
Reg. No. 55,556

December 16, 2005

**The Rafferty Patent Law Firm**

5307 RYMNEY LN  
BURKE, VA 22015-1854  
Tel.: (703) 716-1191  
Fax: (626) 549-2008  
mail@raffertyfirm.com

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Kyung Byung YOON *et al.*

Appl. No: : Not Yet Assigned  
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THEREBY

**COVER LETTER ACCOMPANYING US NATIONAL STAGE PATENT  
APPLICATION FILED UNDER 35 USC § 371 AND 37 CFR § 1.495**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Enclosed is a new National Stage patent application for filing in the U.S. Patent and Trademark Office under 35 § U.S.C. 371 and 37 § C.F.R. 1.495. A properly executed Declaration and Power of Attorney, and an English language translation of the International Application, as filed, are being submitted herewith. Furthermore, both the Korean base application 10-2003-0039691 and the International Application PCT/KR2004/001467 are hereby incorporated into the present National Stage Application by reference in their entireties, including all written material and drawings corresponding thereto.

Related to the above, correspondence regarding this application should be directed to the present correspondence address as follows:

**The Rafferty Patent Law Firm**  
5307 RYMNEY LN  
BURKE, VA 22015.

If there should be any questions pertaining to this National Stage Application, the Office is respectfully requested to contact Applicant's representatives at the telephone number set forth below.

Respectfully submitted,  
Kyung Byung YOON *et al.*

December 16, 2005

  
\_\_\_\_\_  
Ryan Rafferty  
Reg. No. 55,556

**The Rafferty Patent Law Firm**  
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Fax: (626) 549-2008  
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